## SUMMARY OF THE 2006 CDC SEXUALLY TRANSMITTED DISEASES (STD) TREATMENT GUIDELINES New Hampshire STD/HIV Section

These guidelines reflect the recommendations of the 2006 CDC STD Treatment Guidelines and serve as a quick reference for STDs encountered in an outpatient setting. This is not an exhaustive list of effective treatments, so refer to the complete document from the CDC for more information or call the STD Program. These guidelines are for clinical guidance and not to be construed as standards or inflexible rules. Clinical and epidemiological services are available through your STD Program, and staff are available to assist healthcare providers with confidential notification of sexual partners of patients infected with HIV and other STIs. For assistance, please contact:

The New Hampshire STD/HIV Section, 29 Hazen Drive, Concord, NH 03301 Phone: (800) 228-0254 Fax: (603) 271-4934								
DISEASE	RECOMMENDED TREATMENT	ALTERNATIVES						
	w-up recommendations and management of congenital syphilis)							
PRIMARY (1º), SECONDARY (2º) OR EARLY LATENT (<1 YEAR)	Benzathine penicillin G 2.4 million units IM in a single dose	(For penicillin allergic non-pregnant adult patients)						
Adults		Doxycycline 100 mg orally 2 times a day for 14 days <u>OR</u> Ceftriaxone 1 g daily IV or IM for 8-10 days <u>OR</u> Azithromycin 2 g orally once <sup>1</sup>						
Children	Benzathine penicillin G 50,000 units/kg IM, up to the adult dose of 2.4 million units, in a single dose							
LATE LATENT (>1 YEAR) OR LATENT OF	-							
UNKNOWN DURATION Adults	Benzathine penicillin G 2.4 million units IM for 3 doses, 1 week apart (total 7.2 million units)	Doxycycline 100 mg orally 2 times a day for 28 days for adults only						
Children	Benzathine penicillin G 50,000 units/kg IM up to the adult dose of 2.4 million units, administered as three doses at 1 week intervals (total 150,000 units up to the adult total dose of 7.2 million units)							
NEUROSYPHILIS	Aqueous crystalline penicillin G 18 - 24 million units per day, administered as 3-4 million units IV every 4 hours or continuous infusion, for 10-14 days	Procaine penicillin 2.4 million units IM once daily plus probenecid 500 mg orally 4 times a day, both for 10-14 days						
HIV INFECTION	For 1º, 2º and early latent syphilis:     Treat as above. Some specialists recommend three doses.     For late latent syphilis or latent syphilis of unknown duration:     Perform CSF examination before treatment	The use of any alternative therapy in HIV infected persons has not been well studied; therefore the use of doxycycline, ceftriaxone and azithromycin must be undertaken with caution.						
PREGNANCY	Penicillin is the only recommended treatment for syphilis during pregnancy. Women who are allergic should be desensitized and then treated with penicillin. Dosages are the same as in non-pregnant patients for each stage of syphilis. <sup>2</sup>							
GONOCOCCAL INFECTIONS: Treat also for	chlamydial infection if not ruled out by a sensitive test (nucleic acid am	plification test)						
ADULTS Cervix, Urethra, Rectum	Ceftriaxone 125 mg IM in a single dose     Cefixime 400 mg orally in a single dose	Spectinomycin <sup>5</sup> 2 g IM in a single dose <sup>4</sup> <u>OR</u> Single-dose cephalosporins regimens     See 2006 CDC guidelines for discussion of alternative						
PHARYNX	Ceftriaxone 125 mg IM in a single dose     OR	regimens						
MEN WHO HAVE SEX WITH MEN OR HETEROSEXUALS WITH A HISTORY OF RECENT TRAVEL Cervix, Urethra, Rectum	Ceftriaxone 125 mg IM in a single dose     Cefixime 400 mg orally in a single dose	Update to CDC's STD Treatment Guidelines, 2006: Fluroquinolones No Longer Recommended for Treatment Of Gonococcal Infections						
PHARYNX	Ceftriaxone 125 mg IM in a single dose	(MMWR 4/13/2007 / 56(14);332-336						
CONJUNCTIVA	Ceftriaxone 1 g IM once plus lavage the infected eye with saline solution once							
CHILDREN (<45KG) vagina, cervix, urethra, pharynx, rectum	Ceftriaxone 125 mg IM once	Spectinomycin <sup>5</sup> 40mg/kg IM once (maximum 2 g)						
PREGNANCY	Ceftriaxone 125 mg IM once     Cefixime 400 mg orally in a single dose	Spectinomycin <sup>5</sup> 2 g IM once						
CHLAMYDIAL INFECTIONS	,							
ADULT	Azithromycin 1 g orally single dose	Erythromycin base 500 mg orally 4 times a day for 7 days <u>OR</u> Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days <u>OR</u> Ofloxacin <sup>3</sup> 300 mg orally 2 times a day for 7 days <u>OR</u> Levofloxacin <sup>3</sup> 500 mg orally once a day for 7 days						
CHILDREN <45 KG ≥45 KG and <8 years of age ≥ 8 years of age	Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days <sup>6</sup> Azithromycin 1 g orally single dose     Azithromycin 1 g orally single dose     Doxycycline 100 mg orally 2 times a day for 7 days							
PREGNANCY	<ul> <li>Azithromycin 1 g orally single dose <u>OR</u></li> <li>Amoxicillin 500 mg orally 3 times a day for 7 days</li> </ul>	Erythromycin base 500 mg orally 4 times a day for 7 days <u>OR</u> Erythromycin 250 mg orally 4 times a day for 14 days <u>OR</u> Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days <u>OR</u> Erythromycin ethylsuccinate 400 mg 4 times a day for 14 days						

Some patients who are allergic to penicillin may also be allergic to ceftriaxone. Doxycycline is the preferred treatment. Treatment failures with azithromycin have been reported (MMWR 2004;53:197-8). T. pallidum strains resistant to azithromycin have been documented in various geographic areas in the USA (NEJM 2004;351:454-8.). If neither penicillin nor doxycycline can be administered, and azithromycin as a single dose oral dose of 2 g is considered, close follow-up is essential to ensure successful treatment. There are limited clinical studies also for ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline contraindicated; erythromycin not recommended because it does not reliably cure an infected fetus; data insufficient to recommend azithromycin or ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline contraindicated; erythromycin or tertomycin or tertomycin or ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline contraindicated; erythromycin or tertomycin or tertomycin or ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline can be administered, and azithromycin or ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline can be administered, and azithromycin and infection received the tablets and specification or ceftriaxone. Close follow-up of persons receiving any alternative therapies is essential. Tetracycline/doxycycline can be administered, and azithromycin and infection received the acitycline for the persons receiving any alternative therapies is essential. The results of one study involving a limited number of patients suggest that a short course of azithromycin 20 mg/kg/day, 1 dose daily for 3 days may be effective for chlamydial conjunctivitis.

DISEASE		RECOMMENDED TREATMENT	Т		ALTERNATIVES	
NONGONOCOCCAL URETHRITIS		1 g orally single dose <u><b>OR</b></u> )0 mg orally 2 times a day x 7 da	ays	Erythromycin base <sup>8</sup> 500 mg orally 4 times a day for 7 days <u>OR</u> Erythromycin ethylsuccinate <sup>8</sup> 800 mg orally 4 times a day for 7 days <u>OR</u> Ofloxacin <sup>4</sup> 300 mg orally 2 times a day for 7 days <u>OR</u> Levofloxacin <sup>4</sup> 500 mg orally once a day for 7 days		
Epididymitis <sup>9</sup>	Ceftriaxone 250 mg IM single dose PLUS     Doxycycline 100 mg orally 2 times a day for 10 days			Ofloxacin <sup>4</sup> 300 mg orally twice daily for 10 days <u>OR</u> levofloxacin <sup>4</sup> 500 mg orally once a day for 10 days		
PELVIC INFLAMMATORY DISEASE (PID) <sup>10</sup> (outpatient management)  These regimens to be used with or without metronidazole 500 mg orally twice a day for 14 days	REGIMEN A Ceftriaxone 250 r Doxycycline 100 REGIMEN B Ceftriaxone 250 r Cefoxitin 2 g IM c Other third gener	mg IM once PLUS mg orally 2 times a day for 14 d mg IM once <u>OR</u> once plus probenicid 1 g orally of ation cephalosporin PLUS	lays			
PREGNANCY AND PID	Doxycycline 100 mg orally 2 times a day for 14 days  Patients should be hospitalized and treated with the appropriate recommended parenteral IV treatments (see CDC guidelines)					
CHANCROID	Azithromycin 1     Ceftriaxone 25     Ciprofloxacin 5     Erythromycin b     (preferred by si	g orally single dose <u>OR</u> 0 mg IM single dose <u>OR</u> 00 mg orally 2 times a day for 3 case 500 mg orally 3 times a day ome experts if HIV co-infection)	3 days <u>OR</u> y for 7 days			galasiii.ee,
HERPES SIMPLEX VIRUS (for non-pregnant a	†			egnancy and	in the neonate	
First clinical episode of genital herpes	• Famciclovir 25	00 mg orally 3 times a day for 7- 00 mg orally 5 times a day for 7- 50 mg orally 3 times a day for 7- 1 g orally 2 times a day for 7-10	-10 days <u><i>OR</i></u> -10 days <u><i>OR</i></u>			
Daily Suppressive therapy	Famciclovir 2:	00 mg orally 2 times a day <u>OR</u> 50 mg orally 2 times a day <u>OR</u> 00 mg orally once a day <u>OR</u> 1 g				
Episodic Recurrent Infection	Acyclovir 8     4     8     Famciclovir 1:     10	00 mg orally 2 times a day for 5 00 mg orally 3 times a day for 5 00 mg orally 3 times a day for 2 25 mg orally 2 times a day for 5 00 mg orally 2 times a day for 3 00 mg orally 2 times a day for 3 1 g orally once a day for 5 day	days <u>OR</u> days <u>OR</u> days <u>OR</u> days <u>OR</u> day day			
HIV INFECTION	Higher doses ar	nd/or longer therapy recomme		DC guidelin	es.	
PEDICULOSIS PUBIS <sup>11</sup>	Permethrin 1% cream rinse applied to affected area and washed off after 10 minutes <u>OR</u> Pyrethrins with piperonyl butoxide applied to affected area and washed off after 10 minutes		Malathion 0.5% lotion applied for 8-12 hours and washed off <u>OR</u> Ivermectin 250 ug/kg repeated in 2 weeks			
SCABIES	Permethrin 5% cream applied to all areas of the body from the neck down and washed off after 8-14 hours <i>OR</i> Ivermectin 200ug/kg orally, repeated in 2 weeks			Lindane <sup>11</sup> 1% 1 oz of lotion or 30 g of cream applied thinly to all areas of the body and thoroughly washed off after 8 hours		
BACTERIAL VAGINOSIS (BV)	Metronidazole 12 500 mg orally 2 times a day for 7 days     Metronidazole gel 0.75% intravag. once a day for 5 days			Clindamycin 300 mg orally 2 times a day for 7 days <u>OR</u> Clindamycin ovules 100 mg intravag. at bedtime for 3 days		
PREGNANCY AND BV <sup>12</sup>	Clindamycin cream <sup>13</sup> 2% intravag. at bedtime for 7 days      Metronidazole <sup>12</sup> 500 mg orally 2 times a day for 7 days     Metronidazole <sup>12</sup> 250 mg orally 3 times a day for 7 days     Clindamycin 300 mg orally 2 times a day for 7 days					
TRICHOMONIASIS	Metronidazole <sup>1</sup> Tnidazole <sup>14</sup> 2 g	Metronidazole <sup>12</sup> 2 g orally single dose <u>OR</u> Tnidazole <sup>14</sup> 2 g orally single dose		Metronidazole <sup>12</sup> 500 mg orally 2 times a day for 7 days		
		GENITAL WAR				1 0 1
External  PROVIDER-ADMINISTERED  Cryotherapy with liquid nitrogen or cryoprobe. applications every 1-2 weeks if necessary <i>OR</i> Trichloroacetic acid (TCA) or bichloroacetic aci 90%. Apply small amount only to warts. Allow amount applied, powder with talc, baking soda Repeat weekly if necessary <i>OR</i> Podophyllin resin 10%-25% <sup>14</sup> in a compound tin benzoin. Allow to air dry. Limit application to < <0.5 ml. Wash off 1-4 hours after application. Finecessary  OR  Surgical removal  PATIENT-APPLIED  Podofilox 0.5% solution or gel <sup>14</sup> . Apply 2 times followed by 4 days of no therapy. This cycle canecessary for up to 4 times. Total wart area shound to company and total volume applied daily not to expending or more daily at bedweek for up to 16 weeks. Wash treatment area	d (BCA) 80% - to dry. If excess or liquid soap.  ncture of 10 cm² and to Repeat weekly if  a day for 3 days, an be repeated as could not exceed ceed 0.5 ml.  dtime 3 times a	Urethral Meatus  Cryotherapy with liquid nitrogen  OR  Podophyllin 10%-25% <sup>14</sup> in a compound tincture of benzoin. Treatment area must be dry before contact with normal mucosa.  Repeat weekly if necessary.	Vaginal Cryotherapy with nitrogen. Cryoprorecommended (r perforation and fi formation)  OR TCA or BCA 809 Apply small amo warts. If excess a applied, powder baking soda or li Repeat weekly if	obe not isk of istula 6-90%. unt only to amount with talc, quid soap.	Anal  Cryotherapy with liquid nitrogen  OR  TCA or BCA 80%-90%.  Apply small amount only to warts. If excess amount applied, powder with talc, baking soda or liquid soap.  Repeat weekly if necessary.  Many persons with anal warts may also have them in the rectal mucosa. Inspect rectal mucosa by digital examination or anoscopy.  Warts on the rectal mucosa should be managed in consultation with a specialist.	Oral  Cryotherapy with liquid nitrogen OR  Surgical removal

Water 6-10 nours after application.

7 Infections with M. genitalium may respond better to azithromycin. 8 If this dose cannot be tolerated, then erythromycin base 250 mg orally or erythromycin ethylsuccinate 400 mg orally 4 times a day for 14 days can be used. 9 The recommended regimen of ceftriaxone and doxycycline is for epididymitis most likely caused by GC or CT infection. The alternative regimen of ofloxacin or levofloxacin is recommended if the epididymitis is most likely caused by enteric organisms, or for patients allergic to cephalosporins and/or tetracycline. 10 Metronidazole will also treat bacterial vaginosis, frequently associated with PID. Whether the management of immunodeficient HIV-infected women with PID requires more aggressive intervention has not been determined. 11 Lindane no longer recommended because of toxicity and is contraindicated in pregnancy. Ivermectin not recommended for pregnant and lactating women or for children who weigh <15 kg. Pregnant or lactating women should be treated with either permethrin or pyrethrins with piperonis with piperonis with piperonis with piperonis with extensive dermatitis and women who are pregnant or lactating, or children aged <2 years. 12 Multiple studies and meta-analyses have not demonstrated a consistent association between metronidazole use during pregnancy and teratogenic or mutagenic effects in newborns. Screening for, and oral treatment of, BV in pregnant women at high risk for premature delivery is recommended by some

experts and should occur at the first prenatal visit. Intravaginal clindamycin treatment for low risk women should be used only during the first half of pregnancy condoms and diaphragms for 5 days after use. <sup>14</sup> Safety during pregnancy not established.	<sup>13</sup> Clindamycin cream is oil-based and may weaken latex